Sample On-Site Survey Report

Prepared By: XXXXXXXXXX
Date: XXXXXXXXXX
Overview

A site survey was conducted for XXXXXXXXX in Atlanta GA. This survey was conducted to determine the number of access points and antenna types required and their respective locations in the facility.

This site survey report contains all of the required specifications to facilitate the installation and implementation to achieve the desired coverage. The report is to be used by the cable installation team to run all required cabling as identified by model or specification number, length, location, and termination points.

The Site Survey Report is not a Network Design or Cable Plant Extension. The cable distances illustrated within this report are not always within EIA/TIA specifications. The cable distances represent the lengths from the Access Point Location to the closest known Hub/Switch location or Computer Room at the time of the Site Survey. If a Cable Plant Design or Network Design is requested, please contact your Velociti Account Manager below.

The Huntsville Radio Service representative is:

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXXXXXXXX</td>
<td>XXX-XXX-XXXX</td>
<td>XXXXXXXX.com</td>
<td></td>
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</table>

All Specific Site Addresses and Identifying Information:

<table>
<thead>
<tr>
<th>Address:</th>
<th>Information:</th>
</tr>
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<tbody>
<tr>
<td>XXXXXXXXXXXXXX</td>
<td>Healthcare</td>
</tr>
<tr>
<td>Atlanta GA 30045</td>
<td></td>
</tr>
</tbody>
</table>
Warranty of Coverage:

The on-site survey results reported within this document are warranted for one (1) year from the survey conclusion date to provide 100% RF coverage in the regions designated by your representative and documented within the report. This warranty applies if the enumerated equipment is installed, configured, and tested per this report. The warranty further assumes that there are no changes to the facility’s structure, variable parameters within the building that may modify the RF propagation, or the addition of other RF devices that may interfere with the installed RF equipment. Variables such as those stated above may require a diagnostic survey of the site and carry additional costs. The warranty only applies to coverage by the RF models specified within the report and reflects the device types designated on the buyer’s site survey request form. This warranty is limited to RF coverage and does not provide any explicit or implied guarantee relating to other network design parameters; such as, but not limited to: optimum network speed, data throughput, fault tolerance, redundancy, etc.

Presuming that the buyer notifies the seller within the warranty period, any defect will be handled by the seller within a reasonable time frame. These steps will include arranging for and performing a new survey of the site. Should this re-survey find coverage shortfalls in the equipment specified, the seller will provide a revised site survey report and provide any labor necessary to move the existing equipment and/or install additional equipment as specified in the revised report. The buyer is responsible for the purchase of any additional equipment required. Should the re-survey find that the system was not installed in accordance with the specifications shown in the site survey report, the seller reserves the right to invoice the buyer at the current rates for the time spent in troubleshooting the installation, including the expenses incurred.
Site Description:
- The area to be covered consisted of Office Areas, Surgery Operating Rooms, Post recovery rooms and Regular Patient rooms.
- The specified coverage area was Three Floors in the Main Hospital and a Supplemental Building across the Street.
- The floor is concrete, carpet, and tile.
- The walls are concrete, sheet rock, and brick.
- The ceiling is metal, dropped ceiling, and sheet rock.
- The ceiling heights are 8 to 11 feet.

Survey and Coverage Tests:
- The RF coverage was determined by using AirMagnet Site Survey Software with a Dell 830 Laptop and AirMagnet WLAN Card.
- The RF coverage was supplied by a AP XXX - 2.4/5.8GHz, 802.11a/g/n Access Point with internal antennas.

System Configuration:
- The minimum RSSI surveyed for was -65dBm.
- The AP Power was set at 30mW on both 2.4GHz and 5GHz Radios.
- The AP units ESSID was set to “survey”.
- The wireless card ESSID was set to “survey”.
- A packet size of 1024 bytes was used.
- The network protocol is TCP/IP.

Installation Overview:
- No special equipment will be needed for the installation.
System Component Locations:

Access Port #1: Patient Recovery Family Lobby – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the patient discharge lobby area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #2: Patient Recovery – 1st Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the patient recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 180 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #3: Patient Admission – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the patient Admissions area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 185 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #4: Patient Recovery – 1st Floor


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the patient recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 75 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #5: Patient Recovery – 1st Floor


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the patient recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 115 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #6: Patient Recovery – 1st Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the patient recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 200 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #7: Hallway Between Recovery and Surgery Rms - First Floor


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the hallway between the recovery and surgery rooms. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 100 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #8: Patient Recovery – 1st Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the patient recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 100 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #9: Hallway Between Recovery and Surgery Rms - First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the hallway between the recovery and surgery rooms. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 100 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.

![Ceiling Grid](image)
Access Port #10: Hallway Between Recovery and Surgery Rms – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the hallway between the recovery and surgery rooms. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #11: Doctors Lounge – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the Doctors Lounge. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 190 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #12: Surgery – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 125 feet to IDF2.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #13: Surgery – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 95 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #14: Surgery – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 65 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #15: Surgery – First Floor

**General Information:** – *Tri-Radio Air-Defense Sensor*

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 175 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

**Mounting Information:**
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #16: Surgery – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 255 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #17: Surgery – First Floor

General Information:

- **AP Model:** AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- **Antenna Model:** Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- **AP Location:** Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- **Data Cabling:** The cable distance is approximately 135 feet to IDF3.
- **Power Cabling:** POE
- **RF Channel:** Auto Channel Select on Both Radios
- **AP Power:** Auto Power on Both Radios

Mounting Information:

- **AP Height:** The AP is approximately 8.5 feet from the ground.
- **Antenna Height:** The antenna is approximately 8.5 feet from the ground.
- **Antenna Orientation:** Inverted
- **Mounting Surface:** Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.

![Ceiling Grid Image](image-url)
Access Port #18: Surgery – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 100 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #19: Surgery – First Floor


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 190 feet to IDF3.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.

![Ceiling Grid Image]
Access Port #20: Surgery – First Floor

General Information:

• AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
• Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
• AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the surgery area. (Please refer to drawing)
• Data Cabling: The cable distance is approximately 220 feet to IDF3.
• Power Cabling: POE
• RF Channel: Auto Channel Select on Both Radios
• AP Power: Auto Power on Both Radios

Mounting Information:

• AP Height: The AP is approximately 8.5 feet from the ground.
• Antenna Height: The antenna is approximately 8.5 feet from the ground.
• Antenna Orientation: Inverted
• Mounting Surface: Ceiling Grid

• The picture below is the type of ceiling grid the AP will mount.
Access Port #21: Eye Center Hallway – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the eye surgery center area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to IDF4.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #22: Eye Center Hallway – First Floor


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the eye surgery center area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to IDF4.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #23: Eye Center – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the eye surgery center area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to IDF4.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #24: Eye Center – First Floor


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the eye surgery center area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to IDF4.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.

![Ceiling Grid Example](image-url)
Access Port #25: Eye Center – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 1st floor, in the eye surgery center area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to IDF4.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #26: Second Floor – Extended Stay

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 2nd floor, in the patient extended recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 280 feet to IDF1.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #27: Second Floor – Extended Stay


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 2nd floor, in the patient extended recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 180 feet to IDF1.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #28: Second Floor – Extended Stay

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 2nd floor, in the patient extended recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 160 feet to IDF1.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #29: Second Floor – Extended Stay


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 2nd floor, in the patient extended recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 85 feet to IDF1.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #30: Second Floor – Extended Stay

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 2nd floor, in the patient extended recovery area. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 90 feet to IDF1.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #31: Second Floor – Extended Stay

General Information:

- **AP Model:** AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- **Antenna Model:** Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- **AP Location:** Mounted to the underside of the ceiling tile, on the 2nd floor, in the patient extended recovery area. (Please refer to drawing)
- **Data Cabling:** The cable distance is approximately 40 feet to IDF1.
- **Power Cabling:** POE
- **RF Channel:** Auto Channel Select on Both Radios
- **AP Power:** Auto Power on Both Radios

Mounting Information:

- **AP Height:** The AP is approximately 8.5 feet from the ground.
- **Antenna Height:** The antenna is approximately 8.5 feet from the ground.
- **Antenna Orientation:** Inverted
- **Mounting Surface:** Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #32: Third Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.

![Ceiling Grid with AP](image-url)
Access Port #33: Third Floor


- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #34: Third Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #35: Third Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #36: Third Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #37: Additional Building – First Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #38: Additional Building – Second Floor

General Information: – **Tri-Radio Air-Defense Sensor**

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:
- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Access Port #39: Additional Building – Third Floor

General Information:

- AP Model: AP-XXX 2.4GHz, 5.8GHz Wireless Access Point
- Antenna Model: Six Dipole Omni Directional Fixed Antenna: 3dbi @ 2.4GHz & 4dbi @ 5GHz
- AP Location: Mounted to the underside of the ceiling tile, on the 3rd floor. (Please refer to drawing)
- Data Cabling: The cable distance is approximately 150 feet to the MDF.
- Power Cabling: POE
- RF Channel: Auto Channel Select on Both Radios
- AP Power: Auto Power on Both Radios

Mounting Information:

- AP Height: The AP is approximately 8.5 feet from the ground.
- Antenna Height: The antenna is approximately 8.5 feet from the ground.
- Antenna Orientation: Inverted
- Mounting Surface: Ceiling Grid

- The picture below is the type of ceiling grid the AP will mount.
Cabling and Mounting Guidelines:

Access Point Mounting:
• In all instances, the Access Points will be mounted using the proper Access Point mounting kit.

Antenna Mounting:
• Antenna mounting will be according to manufacturer’s specifications employing proper stand off brackets.
• In general, each antenna will be mounted 2-3’ of the Access Point.

Equipment and Cable Support:
• All cables shall be supported at periodic intervals.
• All components in the system will be securely mounted to suitable structural supports.
• These devices will be installed in a manner that will facilitate ease of access for connections and maintenance purposes.
• During any placement of system devices, principle considerations will be given to safety hazards and security of the equipment. Additionally, all work areas shall be returned to a clean and debris free condition at the conclusion of any work effort.

Identification:
• All devices in the system will be appropriately labeled with an easily legible identification tag affixed to its housing or surface.

Anchors and Support:
• Cabling, conduit, beam and “C” clamps will be used for anchoring and supporting cable to beams, walls, or flooring as required.
• Clamps and supports will be installed as specified by the manufacturer’s mounting specifications.
• Attachments will be made to the permanent building structure.
• At no time will attachments be made to the existing conducts or suspending ceiling supports.

Power Requirements:
All equipment should be powered from a dedicated 24 hour, 120 VAC, 20 Amp circuit controlled by its own breaker within the breaker panel. A filtered uninterrupted power source is preferred and recommended, if available. Electrical boxes should be mounted facing up so that the transformer may be plugged in from the top with the weight of the transformer resting on the workbox. The transformer should also be tie wrapped to the electrical workbox.
Network Design:

- Customer uses 568B standard

MDF:

- Location: Third Floor
- Patch Panel Ports Available: Yes
- Switch Ports Available: Yes
- Switch Manufacturer and Model Number: Cisco
- Does Switch Provide POE: Yes
- Network Switch Available: Yes
- AC Power Available: Yes
IDF 1:
- Location: Second floor across from elevators
- Patch Panel Ports Available: Yes
- Switch Ports Available: Yes
- Switch Manufacturer and Model Number: Unknown
- Does Switch Provide POE: Yes
- Network Switch Available: Yes
- AC Power Available: Yes

IDF 2:
- Location: First floor in Patient Recovery across from triple elevators
- Patch Panel Ports Available: Yes
- Switch Ports Available: Yes
- Switch Manufacturer and Model Number: Unknown
- Does Switch Provide POE: Yes
- Network Switch Available: Yes
- AC Power Available: Yes

IDF 3:
- Location: Located in the Clean Laundry Room 190, first floor
- Patch Panel Ports Available: Yes
- Switch Ports Available: Yes
- Switch Manufacturer and Model Number: Unknown
- Does Switch Provide POE: Yes
- Network Switch Available: Yes
- AC Power Available: Yes

IDF 4:
- Location: Located in the Eye Center Hallway above ceiling tile, first floor
- Patch Panel Ports Available: Yes
- Switch Ports Available: Yes
- Switch Manufacturer and Model Number: Unknown
- Does Switch Provide POE: Yes
- Network Switch Available: Yes
- AC Power Available: Yes
Special Concerns:

- Could not survey the entire surgery room areas or patients recovery rooms due to limited access. The RF Coverage provided will be adequate in all areas.
- Survey Flags were not hung due Hospital environment.
- Access Points 37, 38 and 39 are for the additional building across the street. The area does not have RF Coverage results due to time constraints but due to floor sizes one AP per floor will be adequate.
- Access Points 4, 5, 7, 15, 19, 22, 24, 27, 29, 33 & 38 will be Tri-Radio Access Points using High Power Single Port Injectors.
- It was communicated that all Network Switches are POE capable. All Dual Radio Access Points (28 Total) will get power from the POE Capable Network Switches.

Equipment List:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Provided Part#</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>XXXX Wireless Controller (48- Port License)</td>
<td>XXXXX</td>
</tr>
<tr>
<td>1</td>
<td>XXXX Redundant Wireless Controller</td>
<td>XXXXX</td>
</tr>
<tr>
<td>28</td>
<td>AP-XXX 2.4GHz, 5.8GHz Wireless Access Point – <strong>Dual Radio</strong></td>
<td>XXXXX</td>
</tr>
<tr>
<td>11</td>
<td>AP-XXX 2.4GHz, 5.8GHz Wireless Access Point – <strong>Tri-Radio</strong></td>
<td>XXXXX</td>
</tr>
<tr>
<td>11</td>
<td>Single Port High Power POE Injector - 802.3at – <strong>Use with Tri-Radio</strong></td>
<td>XXXXX</td>
</tr>
<tr>
<td>11</td>
<td>Single AC Power Line Cord</td>
<td>XXXXX</td>
</tr>
<tr>
<td>234</td>
<td>Dipole Omni Directional Fixed Antenna: 6dbi @ 2.4GHz &amp; 7dbi @ 5GHz</td>
<td>XXXXX</td>
</tr>
</tbody>
</table>

Attached Drawings:
Surgery Center – First Floor Administration & Lobby – AP Locations:

***Note that some AP’s on the right side will appear on the First Floor Operating Maps since the areas overlap.***
Surgery Center – First Floor Administration & Lobby – RF Coverage:
Surgery Center – First Floor Operating Rooms – AP Locations:

***Note that some AP’s on the right side will appear on the First Floor Operating Maps since the areas overlap.***
Surgery Center – First Floor Operating Rooms – RF Coverage:
Eye Surgery Center – AP Locations
Eye Surgery Center – RF Coverage
Second Floor – Patient Extended Recovery – AP Locations:
Third Floor – RF Coverage: